Title (en)

APPARATUS FOR GENERATING IDENTIFICATION KEY AND MANAGEMENT METHOD THEREOF

Title (de)

VORRICHTUNG ZUR ERZEUGUNG EINES IDENTIFIKATIONSSCHLÜSSELS UND VERWALTUNGSVERFAHREN DAFÜR

Title (fr)

APPAREIL DE GÉNÉRATION DE CLÉ D'IDENTIFICATION ET SON PROCÉDÉ DE GESTION

Publication

EP 3407535 A1 20181128 (EN)

Application

EP 17741666 A 20170119

Priority

- KR 20160006564 A 20160119
- KR 2017000650 W 20170119

Abstract (en)

Provided are an apparatus and a method for generating an identification key with improved reliability by: providing a plurality of resistances which are generated according to a random connection state between conductive layers of a semiconductor due to process variation of the semiconductor; discriminating a first group which has a resistance value greater than a first threshold value and less than a second threshold value among the plurality of resistances; and reading at least one resistance which does not belong to the first group out of the plurality of resistances and reading an identification key in the form of a digital value.

IPC 8 full level

H04L 9/32 (2006.01); **G06K 9/00** (2006.01); **H04L 9/08** (2006.01)

CPC (source: EP KR US)

G06V 40/12 (2022.01 - KR); **G09C 1/00** (2013.01 - EP US); **H01L 27/0629** (2013.01 - US); **H04L 9/08** (2013.01 - EP US); **H04L 9/0816** (2013.01 - KR); **H04L 9/0866** (2013.01 - EP US); **H04L 9/32** (2013.01 - EP US); **H04L 9/3231** (2013.01 - KR); **H04L 9/3278** (2013.01 - EP KR); G06V 40/12 (2022.01 - EP); H01L 27/0629 (2013.01 - EP); H04L 2209/12 (2013.01 - EP US); H04L 2209/26 (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3407535 A1 20181128; **EP 3407535 A4 20190904**; **EP 3407535 B1 20230809**; CN 108886470 A 20181123; CN 108886470 B 20210917; KR 20170087048 A 20170727; US 11044086 B2 20210622; US 2019036690 A1 20190131; WO 2017126900 A1 20170727

DOCDB simple family (application)

EP 17741666 A 20170119; CN 201780018446 A 20170119; KR 2017000650 W 20170119; KR 20170009084 A 20170119; US 201716071008 A 20170119